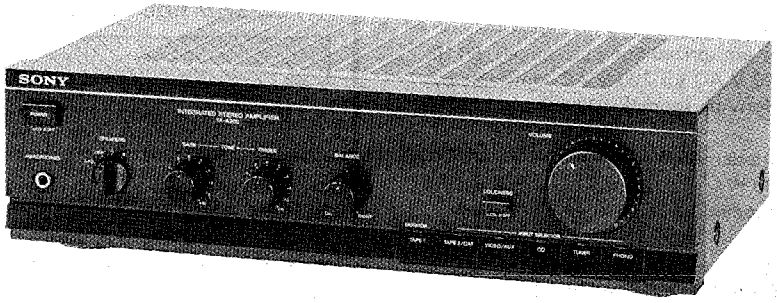
TA-A200

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)
at 1 kHz
55 W + 55 W (5% THD, 8 ohms)
43 W + 43 W (0.05% THD, 8 ohms)
at 40 Hz - 20 kHz
40 W + 40 W (0.05% THD, 8 ohms)
DIN 45500
at 40 Hz - 12.5 kHz
48 W + 48 W (0.05% THD, 8 ohms)

Power bandwidth (IHF)
10 Hz - 40 kHz (8 ohms, 20 watts)

Dynamic headroom
1.5 dB ('78 IHF)

Harmonic distortion
Less than 0.05% at rated output

Intermodulation (IM) distortion (60 Hz : 7 kHz = 4 : 1)
Less than 0.05% at rated output

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, VIDEO/AUX, TAPE1, TAPE2/DAT:
7 Hz - 100 kHz ±3 dB

Residual noise: Less than 170 μV (8 ohms, network A)

Damping factor: 36 (8 ohms, 1 kHz)

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	Phono	2.0 mV	50 kilohms	70 dB 74 dB* (A, 2.0 mV)
TUNER CD VIDEO/AUX TAPE	Phono	150 mV	50 kilohms	100 dB 86 dB* (150 mV)

*'78 IHF

Output

REC OUT	Phono jacks	Voltage 150 mV Impedance 470 ohms
SPEAKERS	—	Accepts speakers of 8 - 16 ohms.
HEAD-PHONES	Stereo phone jack	Accepts low and high impedance headphones.

Tone controls

	Response	Turnover frequency
BASS	±10 dB (100 Hz)	500 Hz
TREBLE	±10 dB (10 kHz)	3 kHz

Loudness (Attenuation 30 dB)
+6 dB (100 Hz)
+3 dB (10 kHz)

— Continued on page 2 —

INTEGRATED STEREO AMPLIFIER

SONY®

MICROFILM

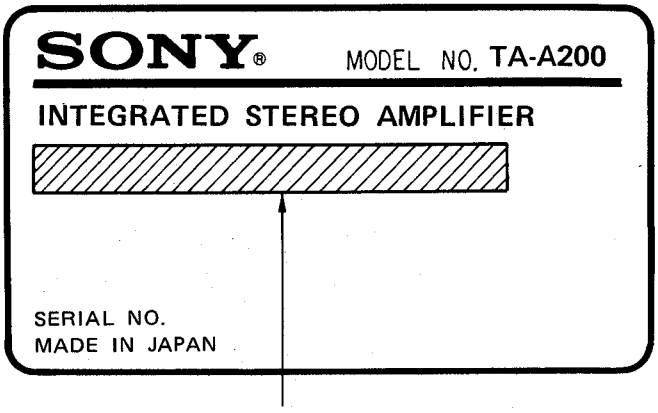
AUD

General

System	Preamplifier: Low-noise, high-gain equalizer amplifier Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Power requirements	
	G-AEP, AEP model: 220 V AC (or 240 V AC adjustable by authorized Sony personnel), 50 Hz UK model: 240 V AC (or 220 V AC adjustable by authorized Sony personnel), 50 Hz
Power consumption	
	G-AEP, AEP model: 85 W UK model: 230 W
AC outlets	G-AEP, AEP model: 3 switched, total 100 watts max. UK model: 1 switched, 100 watts max.
Dimensions	Approx. 430 x 118 x 265 mm (w/h/d) (17 x 4⅝ x 10⅜ inches)
Weight	5.5 kg (12 lb 2 oz)

MODEL IDENTIFICATION

– Specification Label –



G-AEP, AEP Model: AC: 220 V ~ 50/60 Hz 85 W
UK Model: AC: 240 V ~ 50/60 Hz 230 W

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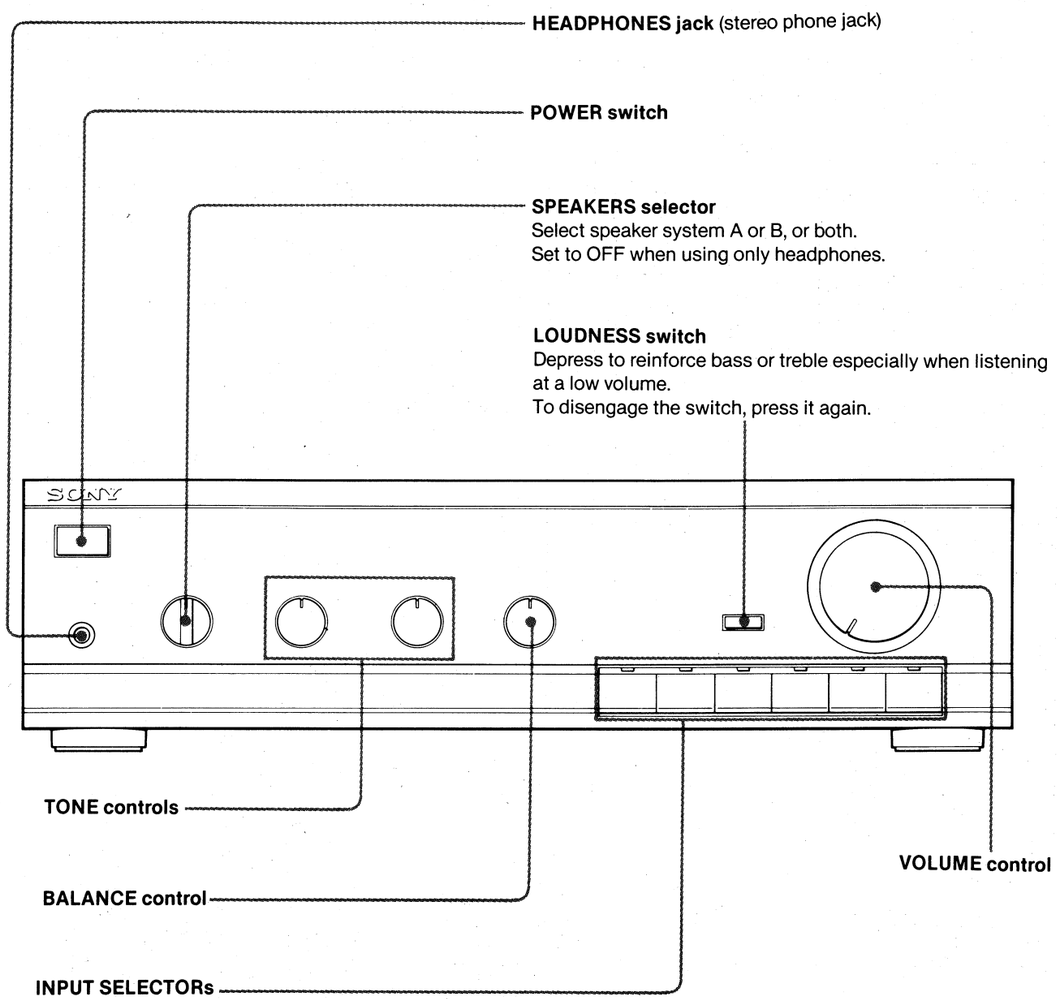
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

LOCATION AND FUNCTION OF CONTROLS

FRONT PANEL



HEADPHONES jack (stereo phone jack)

POWER switch

SPEAKERS selector
Select speaker system A or B, or both.
Set to OFF when using only headphones.

LOUDNESS switch
Depress to reinforce bass or treble especially when listening at a low volume.
To disengage the switch, press it again.

TONE controls

BALANCE control

VOLUME control

INPUT SELECTORs
Select the desired program source for listening.

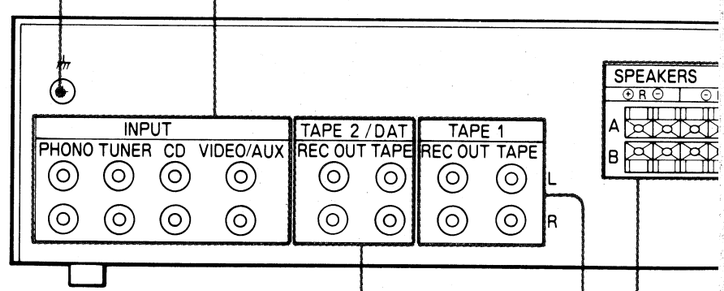
TAPE 1	To play back the tape recorder connected to the TAPE 1 jacks
TAPE 2/DAT	To play back the tape recorder connected to the TAPE 2/DAT jacks
VIDEO/AUX	To listen to the sound of the video equipment or other audio equipment connected to the VIDEO/AUX INPUT jacks
CD	To play back the compact disc player connected to the CD INPUT jacks
TUNER	To listen to the radio programs of the tuner connected to the TUNER INPUT jacks
PHONO	To play the turntable system connected to the PHONO INPUT jacks

REAR PANEL

INPUT jacks (phono)

PHONO	Connect a turntable system.
TUNER	Connect a tuner.
CD	Connect a compact disc player.
VIDEO/AUX	Connect to the audio output jacks of a VTR or other audio equipment.

⏚ (phono ground) terminal
To prevent hum, be sure to connect the ground wire of the turntable system.



AC OUTLETs
Use these to power oth
consumption is less tha
outlet.
These AC outlets are c

For the Canadian mode
SWITCHED: controlle
UNSWITCHED: not c

Caution
Do not connect any hor
wattage equipment to t

TAPE 2/DAT input/output jacks (phono)
Connect to the input and output jacks of a tape recorder.

REC OUT	To the LINE IN jacks
TAPE	To the LINE OUT jacks

TAPE 1 input/output jacks (phono)
Connect to the input and output jacks of a tape recorder.

REC OUT	To the LINE IN jacks
TAPE	To the LINE OUT jacks

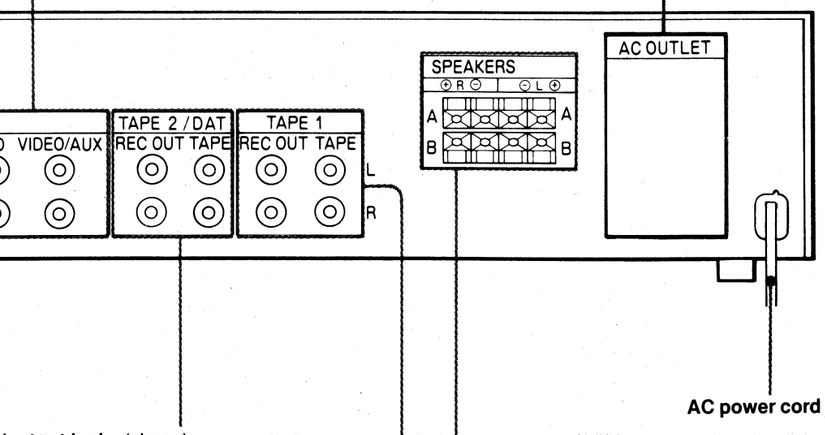
SPE
term

AC OUTLETs
Use these to power other audio units whose power consumption is less than the wattage indicated on the AC outlet.
These AC outlets are controlled by the POWER switch.

For the Canadian model only
SWITCHED: controlled by the POWER switch.
UNSWITCHED: not controlled by the POWER switch.

Caution
Do not connect any home electrical appliances or other high-wattage equipment to these AC outlets.

nect a turntable system.
nect a tuner.
nect a compact disc player.
nect to the audio output jacks of a or other audio equipment.



AC power cord

/output jacks (phono)
ut and output jacks of a tape recorder.

To the LINE IN jacks
To the LINE OUT jacks

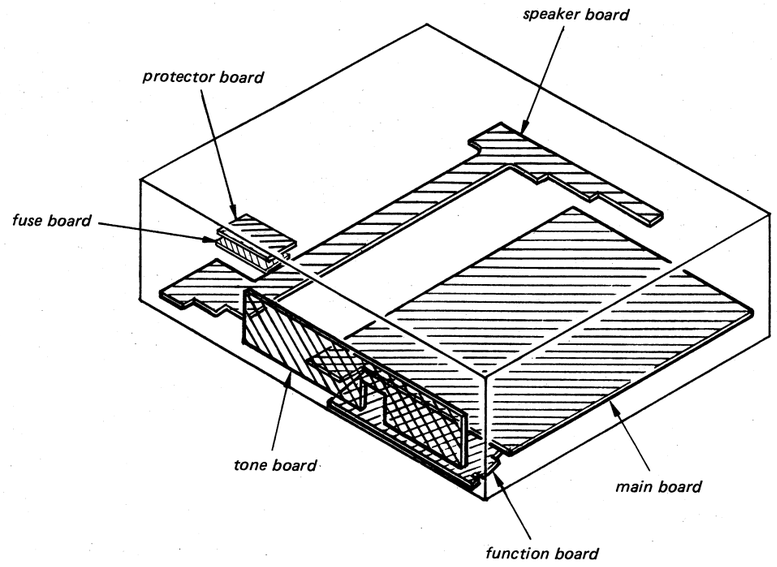
ut jacks (phono)
ut and output jacks of a tape recorder.

To the LINE IN jacks
To the LINE OUT jacks

SPEAKERS A, B terminals

SECTION 1
DIAGRAMS

• CIRCUIT BOARDS LOCATION



1-1. SCHEMATIC DIAGRAM

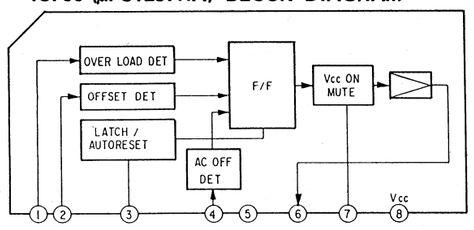
Note:

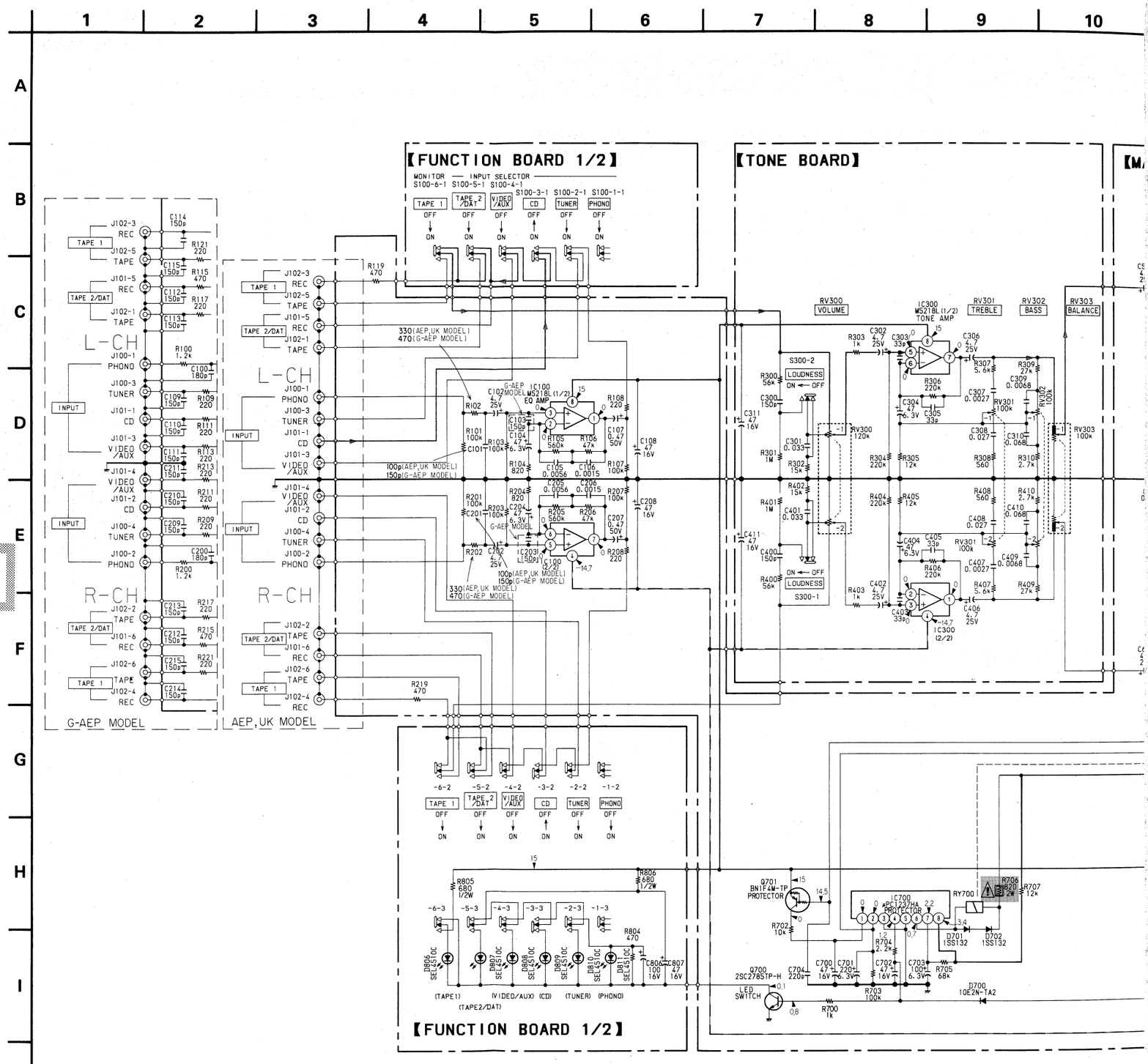
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ▬▶▬ : signal path.
- ▭ : nonflammable resistor.
- ▬▬ : B+ bus.
- ▬ ▬ ▬ : B− bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- Switch

Ref. No.	Switch	Position
S1	POWER	OFF
S100-1	PHONO	OFF
S100-2	TUNER	OFF
S100-3	CD	ON
S100-4	VIDEO/AUX	OFF
S100-5	TAPE 2/DAT	OFF
S100-6	TAPE 1	OFF
S300	LOUDNESS	OFF
S900	SPEAKERS	OFF

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- **IC700 (μPC1237HA) BLOCK DIAGRAM**





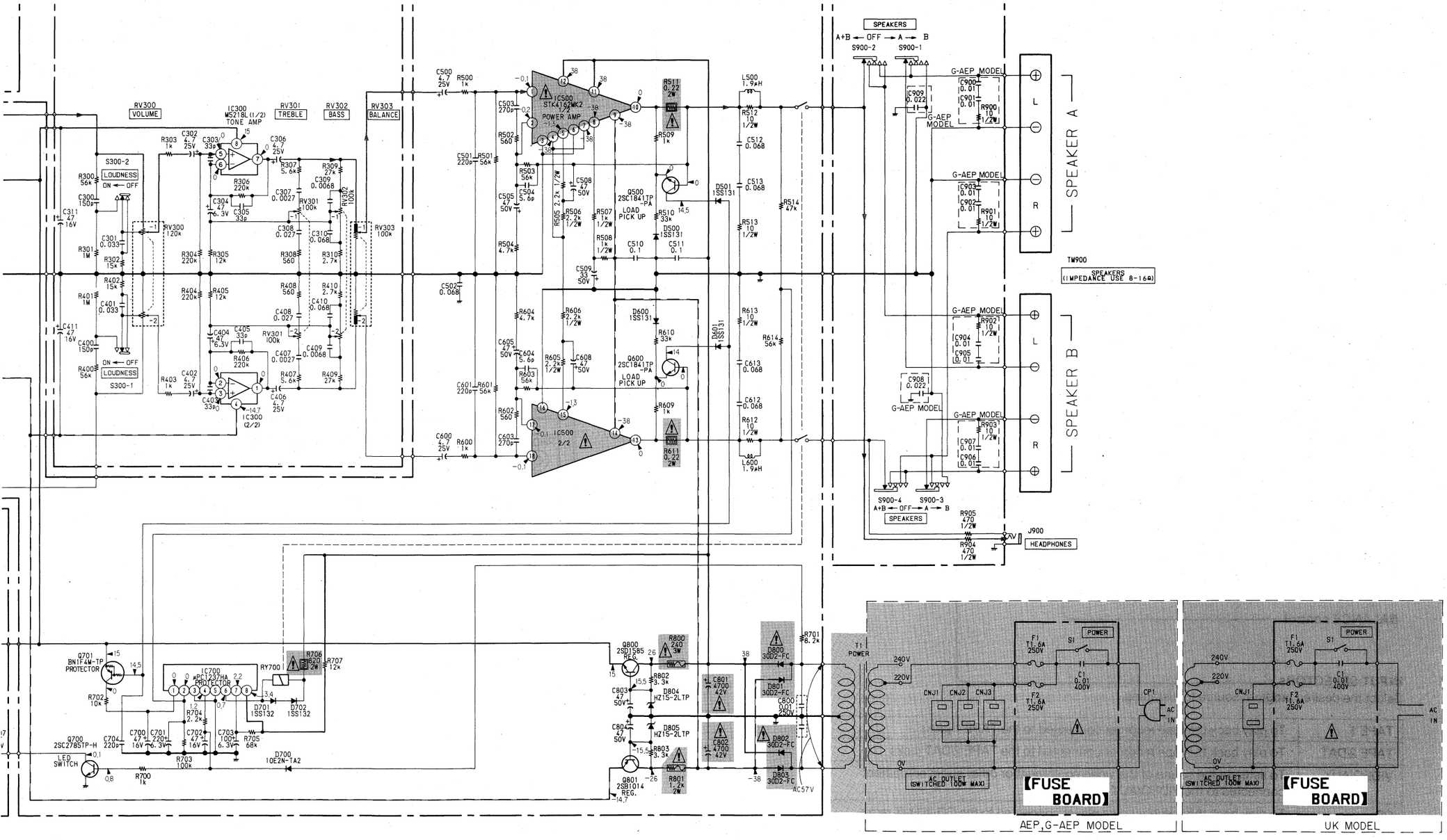
7 8 9 10 11 12 13 14 15 16 17 18 19

A B C D E F G H I J

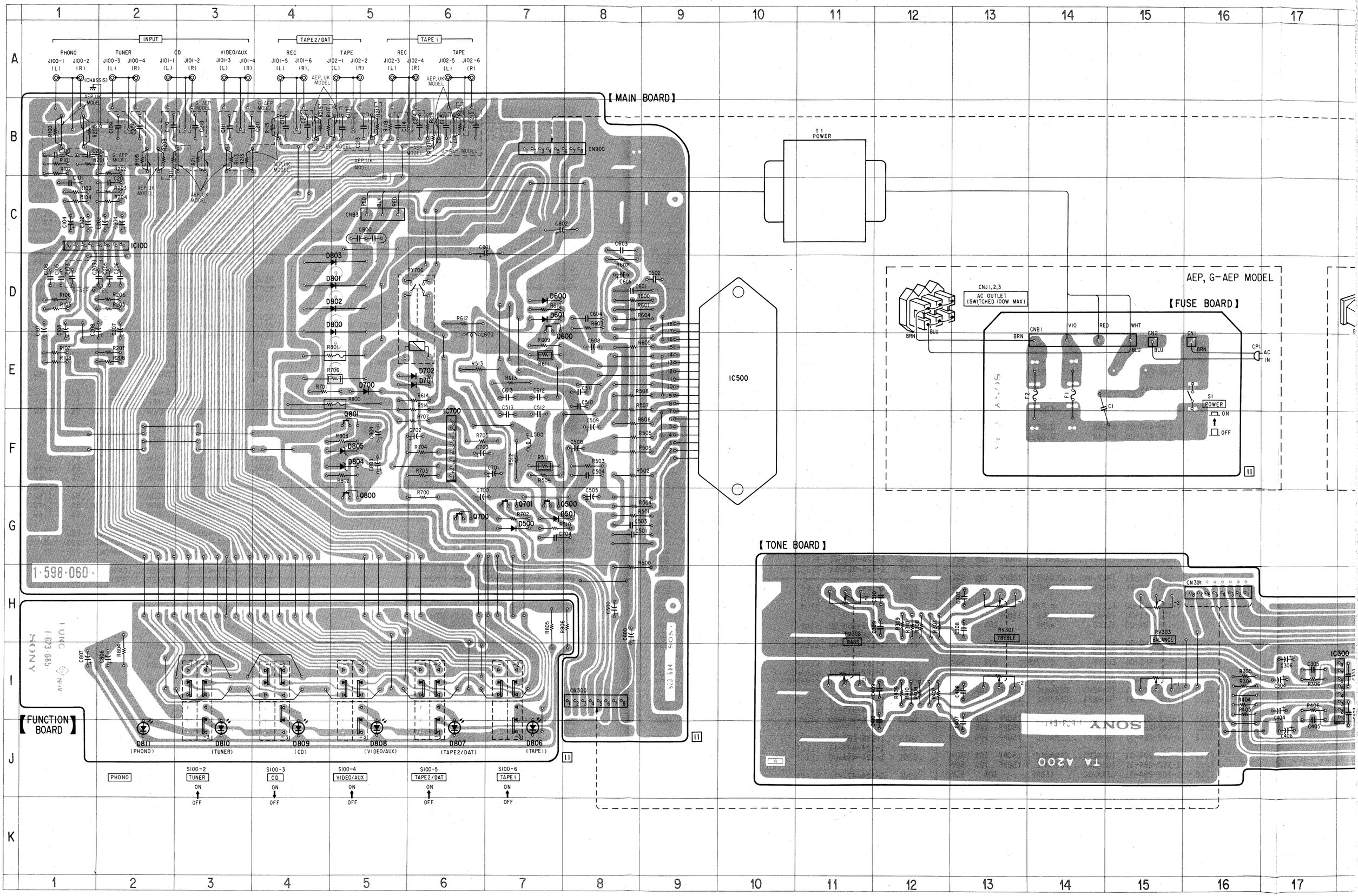
【TONE BOARD】

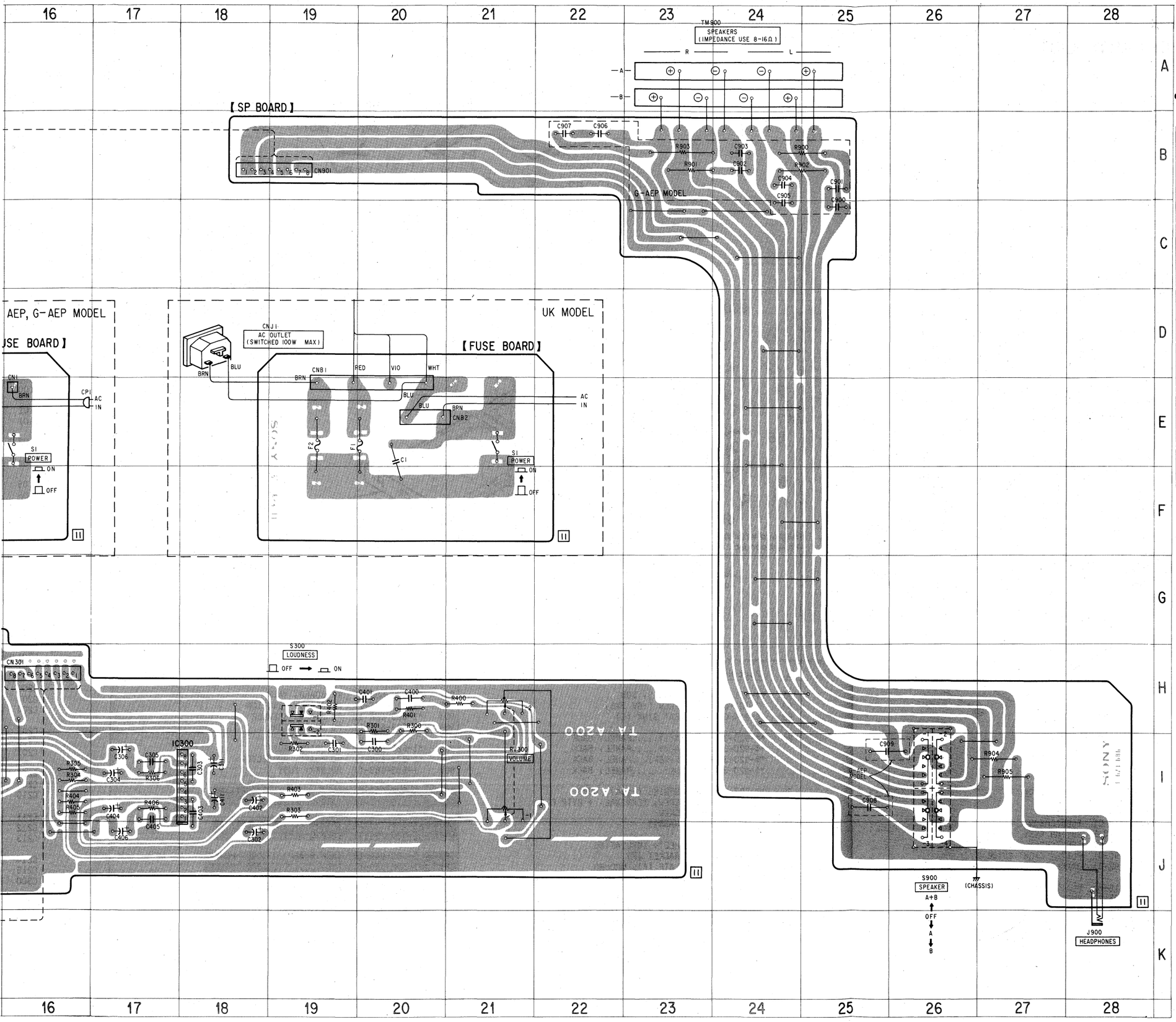
【MAIN BOARD】

【SP BOARD】



1-2. MOUNTING DIAGRAM ● See page 5 for Circuit Boards Location.



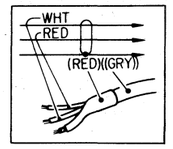


● SEMICONDUCTOR LOCATION

Ref. No.	Location
D500	G-7
D501	G-7
D600	D-7
D601	D-7
D700	E-5
D701	E-6
D702	E-6
D800	D-5
D801	D-5
D802	D-5
D803	D-5
D804	F-5
D805	F-5
D806	J-7
D807	J-6
D808	J-5
D809	J-4
D810	J-3
D811	J-2
IC100	C-2
IC300	I-18
IC500	E-10
IC700	F-6
Q500	G-7
Q600	D-7
Q700	G-6
Q701	G-7
Q800	G-5
Q801	F-5

Note:

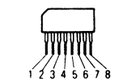
- Color code or sleeving over the end of the jacket.



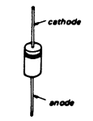
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.

● Semiconductor Lead Layouts

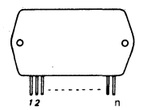
M5218L
μPC1237HA



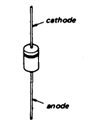
10E2N
1SS131
HZ15-2L
US1060M



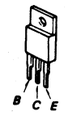
STK4162MK2



30D4



2SD1585-K



SEL4510C-C

2SC1841

2SA1346
2SC634SP

2SB1014

SECTION 2
EXPLODED VIEWS AND PARTS LIST

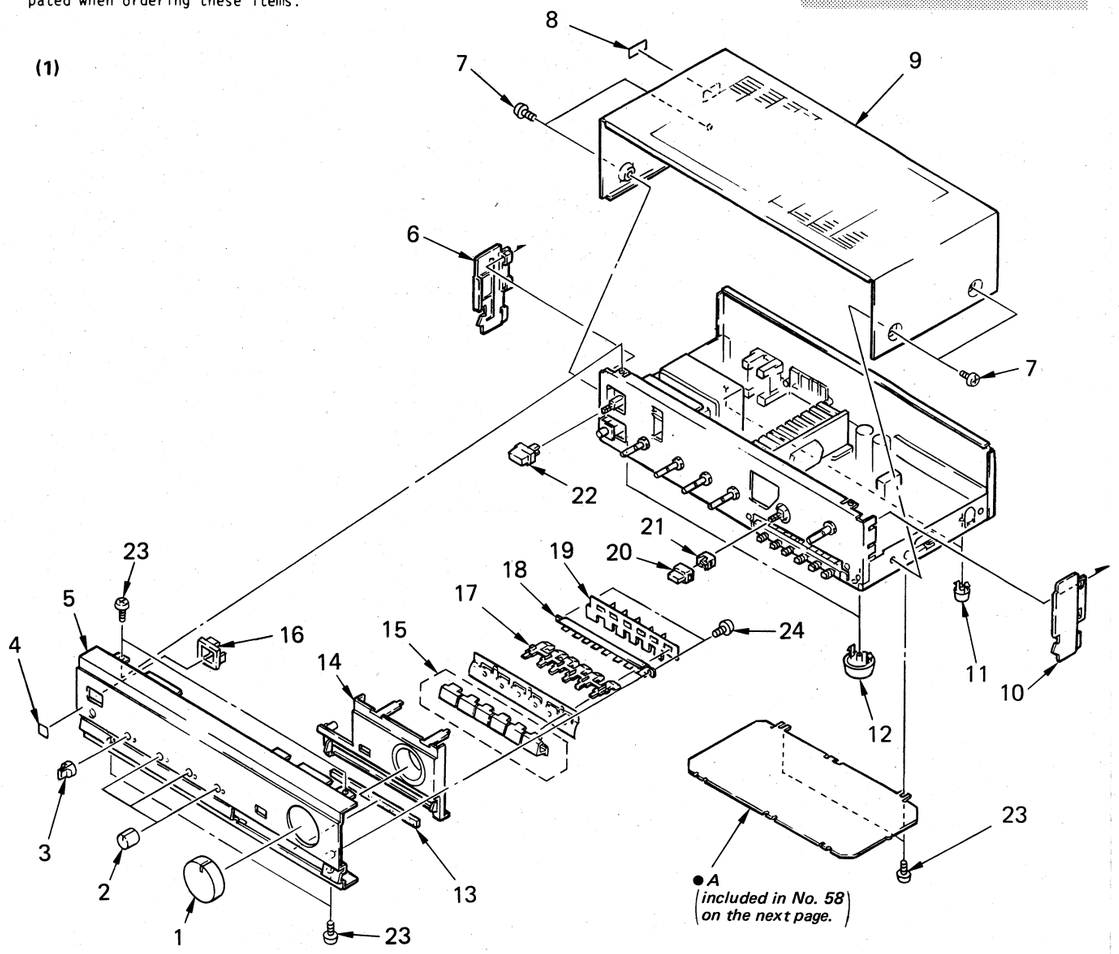
NOTE:
The mechanical parts with no reference number in the exploded views are not supplied.

· Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

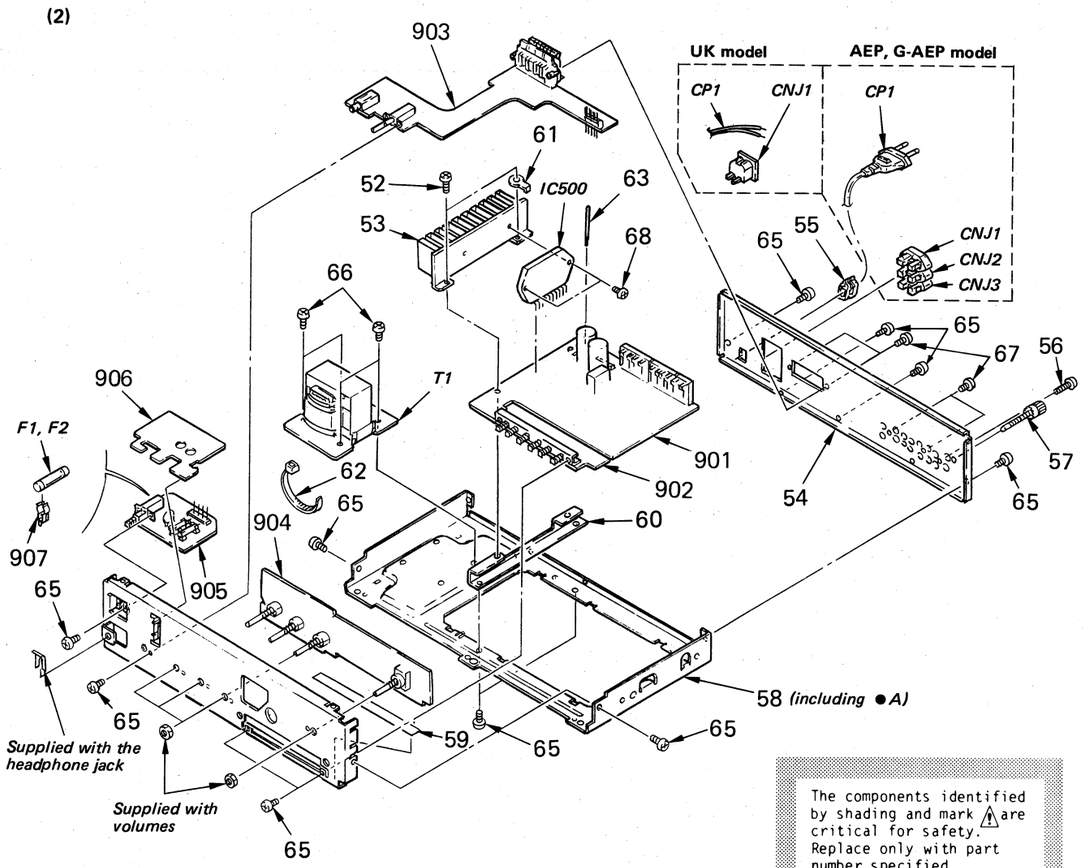
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1)



No.	Part No.	Description	Remarks
1	X-4919-703-1	KNOB (VOL) ASSY	
2	4-916-746-01	KNOB (DIA.21)	
3	4-916-745-01	KNOB (DIA.21)	
4	3-703-713-41	STICKER, SONY SYMBOL (10)	
5	4-921-319-01	PANEL, FRONT	
6	4-921-316-01	PANEL (LEFT), SIDE	
7	4-886-821-01	SCREW, M3 CASE	
8	3-703-079-21	(UK)...LABEL, CAUTION (BACK)	
9	3-327-853-11	CASE	
10	4-921-317-01	PANEL (RIGHT), SIDE	
11	X-4864-303-0	FOOT ASSY	
12	X-3337-104-1	FOOT ASSY, ORNAMENTAL	
13	*4-921-313-01	CUSHION	
14	4-921-318-01	ESCUTCHEON	
15	X-4904-478-1	BUTTON ASSY	
16	4-908-044-11	ESCUTCHEON, POWER KNOB	
17	4-911-295-01	PLATE, LIGHT GUIDE	
18	*4-911-292-01	BRACKET	
19	*4-921-315-01	PLATE, LIGHT INTERCEPTION	
20	3-315-105-21	KNOB (5X16), SQUARE	
21	*4-864-307-00	RING	
22	4-917-460-01	KNOB, POWER	
23	7-682-148-01	SCREW +BVTT 3X8 (S)	
24	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

(2)



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
51	*4-921-320-01	CHASSIS, SUB	
52	3-703-685-21	SCREW (+BV 3X8)	
53	*4-914-027-01	HEAT SINK (E)	
54	*4-920-378-01	(AE1).....PANEL, BACK	
	*4-920-378-11	(AE2).....PANEL, BACK	
	*4-920-378-21	(G-AEP)...PANEL, BACK	
	*4-920-378-31	(UK).....PANEL, BACK	
55	*3-703-244-00	BUSHING (2104), CORD	
56	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
57	3-706-165-00	SCREW	
58	*3-327-854-22	CHASSIS	
59	*4-921-312-01	SHEET, INSULATING	
60	*4-921-314-01	BRACKET (P)	
61	*4-881-629-00	PLATE (A), GROUND	
62	3-701-748-01	(UK)...CLAMP	
63	*3-683-631-01	(G-AEP)...CLAMP	
65	7-682-148-01	SCREW +BVTT 3X8 (S)	
66	7-685-088-01	SCREW +BVTT 4X6	
67	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
68	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
901	*1-623-684-11	PC BOARD, MAIN	
902	*1-623-685-11	PC BOARD, FUNCTION	
903	*1-623-686-11	PC BOARD, SPEAKER	
904	*1-623-687-11	PC BOARD, TONE	
905	*1-623-688-11	PC BOARD, FUSE	
906	*1-623-689-11	PC BOARD, PROTECTOR	
907	1-533-183-11	HOLDER, FUSE	
CNJ1	⚠.1-526-751-00	(UK).....OUTLET, AC	
CNJ1	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNJ2	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNJ3	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CP1	⚠.1-558-944-11	(AEP,G-AEP)...CORD, POWER	
CP1	⚠.1-558-946-11	(UK).....CORD, POWER	
F1	⚠.1-532-259-00	FUSE, TIME-LAG T1.6A	
F2	⚠.1-532-259-00	FUSE, TIME-LAG T1.6A	
T1	⚠.1-448-997-11	TRANSFORMER, POWER	

SECTION 3
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-623-684-11	PC BOARD, MAIN			
902	*1-623-685-11	PC BOARD, FUNCTION			
903	*1-623-686-11	PC BOARD, SPEAKER			
904	*1-623-687-11	PC BOARD, TONE			
905	*1-623-688-11	PC BOARD, FUSE			
906	*1-623-689-11	PC BOARD, PROTECTOR			
907	1-533-183-11	HOLDER, FUSE			
C1	⚠1-161-744-00	CERAMIC	0.01MF		400V
C100	1-162-285-31	(G-AEP)...CERAMIC	180PF	10%	50V
C101	1-162-282-31	(AEP,UK)...CERAMIC	100PF	10%	50V
C101	1-162-284-31	(G-AEP)....CERAMIC	150PF	10%	50V
C102	1-124-245-00	ELECT	4.7MF	20%	25V
C103	1-101-361-00	(G-AEP)...CERAMIC	150PF	5%	50V
C104	1-124-224-00	ELECT	47MF	20%	6.3V
C105	1-130-480-00	MYLAR	0.0056MF	5%	50V
C106	1-130-473-00	MYLAR	0.0015MF	5%	50V
C107	1-124-465-00	ELECT	0.47MF	20%	50V
C108	1-124-477-11	ELECT	47MF	20%	16V
C109	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C110	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C111	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C112	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C113	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C114	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C115	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C200	1-162-285-31	(G-AEP)...CERAMIC	180PF	10%	50V
C201	1-162-282-31	(AEP,UK)...CERAMIC	100PF	10%	50V
C201	1-162-284-31	(G-AEP)....CERAMIC	150PF	10%	50V
C202	1-124-245-00	ELECT	4.7MF	20%	25V
C203	1-101-361-00	(G-AEP)...CERAMIC	150PF	5%	50V
C204	1-124-224-00	ELECT	47MF	20%	6.3V
C205	1-130-480-00	MYLAR	0.0056MF	5%	50V
C206	1-130-473-00	MYLAR	0.0015MF	5%	50V
C207	1-124-465-00	ELECT	0.47MF	20%	50V
C208	1-124-477-11	ELECT	47MF	20%	16V
C209	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C210	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C211	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C212	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C213	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C214	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C215	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C300	1-162-284-31	CERAMIC	150PF	10%	50V
C301	1-136-159-00	FILM	0.033MF	5%	50V
C302	1-124-245-00	ELECT	4.7MF	20%	25V
C303	1-162-211-31	CERAMIC	33PF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C304	1-124-224-00	ELECT	47MF	20%	6.3V
C305	1-162-211-31	CERAMIC	33PF	5%	50V
C306	1-124-245-00	ELECT	4.7MF	20%	25V
C307	1-130-476-00	MYLAR	0.0027MF	5%	50V
C308	1-136-158-00	FILM	0.027MF	5%	50V
C309	1-130-481-00	MYLAR	0.0068MF	5%	50V
C310	1-136-163-00	FILM	0.068MF	5%	50V
C311	1-124-236-00	ELECT	47MF	20%	16V
C400	1-162-284-31	CERAMIC	150PF	10%	50V
C401	1-136-159-00	FILM	0.033MF	5%	50V
C402	1-124-245-00	ELECT	4.7MF	20%	25V
C403	1-162-211-31	CERAMIC	33PF	5%	50V
C404	1-124-224-00	ELECT	47MF	20%	6.3V
C405	1-162-211-31	CERAMIC	33PF	5%	50V
C406	1-124-245-00	ELECT	4.7MF	20%	25V
C407	1-130-476-00	MYLAR	0.0027MF	5%	50V
C408	1-136-158-00	FILM	0.027MF	5%	50V
C409	1-130-481-00	MYLAR	0.0068MF	5%	50V
C410	1-136-163-00	FILM	0.068MF	5%	50V
C411	1-124-236-00	ELECT	47MF	20%	16V
C500	1-124-245-00	ELECT	4.7MF	20%	25V
C501	1-162-286-31	CERAMIC	220PF	10%	50V
C502	1-136-163-00	FILM	0.068MF	5%	50V
C503	1-162-287-31	CERAMIC	270PF	10%	50V
C504	1-162-196-31	CERAMIC	5.6PF	10%	50V
C505	1-124-910-11	ELECT	47MF	20%	50V
C508	1-124-910-11	ELECT	47MF	20%	50V
C509	1-124-917-11	ELECT	33MF	20%	50V
C510	1-136-165-00	FILM	0.1MF	5%	50V
C511	1-136-165-00	FILM	0.1MF	5%	50V
C512	1-136-163-00	FILM	0.068MF	5%	50V
C513	1-136-163-00	FILM	0.068MF	5%	50V
C600	1-124-245-00	ELECT	4.7MF	20%	25V
C601	1-162-286-31	CERAMIC	220PF	10%	50V
C603	1-162-287-31	CERAMIC	270PF	10%	50V
C604	1-162-196-31	CERAMIC	5.6PF	10%	50V
C605	1-124-910-11	ELECT	47MF	20%	50V
C608	1-124-910-11	ELECT	47MF	20%	50V
C612	1-136-163-00	FILM	0.068MF	5%	50V
C613	1-136-163-00	FILM	0.068MF	5%	50V
C700	1-124-477-11	ELECT	47MF	20%	16V
C701	1-124-444-00	ELECT	220MF	20%	6.3V
C702	1-124-477-11	ELECT	47MF	20%	16V
C703	1-124-443-00	ELECT	100MF	20%	6.3V
C704	1-162-286-31	CERAMIC	220PF	10%	50V
C800	1-102-355-00	CERAMIC	0.01MF		250V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C801	⚠1-126-224-11	ELECT	4700MF	20%	42V
C802	⚠1-126-224-11	ELECT	4700MF	20%	42V
C803	1-124-910-11	ELECT	47MF	20%	50V
C804	1-124-910-11	ELECT	47MF	20%	50V
C806	1-126-101-11	ELECT	100MF	20%	16V
C807	1-124-477-11	ELECT	47MF	20%	16V
C900	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C901	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C902	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C903	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C904	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C905	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C906	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C907	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C908	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C909	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
CN300	*1-566-879-11	PIN, CONNECTOR (PC BOARD) 8P			
CN301	*1-562-573-11	SOCKET, CONNECTOR 8P			
CN900	*1-566-878-11	PIN, CONNECTOR (PC BOARD) 8P			
CN901	*1-562-573-11	SOCKET, CONNECTOR 8P			
CNB1	*1-535-141-00	BASE POST 22MM (10MM PITCH) 4P			
CNB2	*1-535-139-00	(UK)...BASE POST 22MM (10MM PITCH) 2P			
CNB3	*1-535-116-00	TERMINAL			
CNJ1	⚠1-526-751-00	(UK).....OUTLET, AC			
CNJ1	⚠1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ2	⚠1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ3	⚠1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ100	1-507-788-00	JACK, PIN 4P (INPUT:PHONO,TUNER)			
CNJ101	1-507-911-11	JACK, PIN 6P (INPUT:CD,VIDEO/AUX, TAPE 2/DAT:REC OUT)			
CNJ102	1-507-911-11	JACK, PIN 6P (TAPE 2/DAT:TAPE,TAPE 1:REC OUT,TAPE)			
CP1	⚠1-558-944-11	(AEP,G-AEP)...CORD, POWER			
CP1	⚠1-558-946-11	(UK).....CORD, POWER			
D500	8-719-940-69	DIODE 1SS131			
D501	8-719-940-69	DIODE 1SS131			
D600	8-719-940-69	DIODE 1SS131			
D601	8-719-940-69	DIODE 1SS131			
D700	8-719-200-77	DIODE 10E2N			
D701	8-719-000-26	DIODE US1060M			
D702	8-719-000-26	DIODE US1060M			
D800	⚠8-719-230-04	DIODE 30D4			
D801	⚠8-719-230-04	DIODE 30D4			
D802	⚠8-719-230-04	DIODE 30D4			
D803	⚠8-719-230-04	DIODE 30D4			
D804	8-719-910-52	DIODE HZ15-2L			
D805	8-719-910-52	DIODE HZ15-2L			
D806	8-719-303-64	DIODE SEL4510C			
D807	8-719-303-64	DIODE SEL4510C			
D808	8-719-303-64	DIODE SEL4510C			
D809	8-719-303-64	DIODE SEL4510C			
D810	8-719-303-64	DIODE SEL4510C			
D811	8-719-303-64	DIODE SEL4510C			
F1	⚠1-532-259-00	FUSE, TIME-LAG T1.6A			
F2	⚠1-532-259-00	FUSE, TIME-LAG T1.6A			
IC100	8-759-600-02	IC M5218L			
IC300	8-759-600-02	IC M5218L			
IC500	⚠8-749-900-24	IC STK4162MK2			
IC700	8-759-111-68	IC UPC1237HA			
J900	1-507-796-21	JACK (HEADPHONES)			
L500	*1-420-872-00	COIL, AIR CORE			
L600	*1-420-872-00	COIL, AIR CORE			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q500	8-729-108-06	TRANSISTOR 2SC1841			
Q600	8-729-108-06	TRANSISTOR 2SC1841			
Q700	8-729-600-27	TRANSISTOR 2SC634SP			
Q701	8-729-806-16	TRANSISTOR 2SA1346			
Q800	8-729-107-26	TRANSISTOR 2SD1585-K			
Q801	8-729-802-22	TRANSISTOR 2SB1014			
R100	1-249-418-11	(G-AEP)...CARBON	1.2K	5%	1/4W
R101	1-249-441-11	CARBON	100K	5%	1/4W
R102	1-249-411-11	(AEP,UK)...CARBON	330	5%	1/4W
R102	1-249-413-11	(G-AEP)....CARBON	470	5%	1/4W
R103	1-249-441-11	CARBON	100K	5%	1/4W
R104	1-249-416-11	CARBON	820	5%	1/4W
R105	1-215-487-00	CARBON	560K	5%	1/4W
R106	1-249-437-11	CARBON	47K	5%	1/4W
R107	1-249-441-11	CARBON	100K	5%	1/4W
R108	1-249-409-11	CARBON	220	5%	1/4W
R109	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R111	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R113	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R115	1-249-413-11	(G-AEP)...CARBON	470	5%	1/4W
R117	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R119	1-249-413-11	CARBON	470	5%	1/4W
R121	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R200	1-249-418-11	(G-AEP)...CARBON	1.2K	5%	1/4W
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-411-11	(AEP,UK)...CARBON	330	5%	1/4W
R202	1-249-413-11	(G-AEP)... CARBON	470	5%	1/4W
R203	1-249-441-11	CARBON	100K	5%	1/4W
R204	1-249-416-11	CARBON	820	5%	1/4W
R205	1-215-487-00	CARBON	560K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-441-11	CARBON	100K	5%	1/4W
R208	1-249-409-11	CARBON	220	5%	1/4W
R209	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R211	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R213	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R215	1-249-413-11	(G-AEP)...CARBON	470	5%	1/4W
R217	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R219	1-249-413-11	CARBON	470	5%	1/4W
R221	1-249-409-11	(G-AEP)...CARBON	220	5%	1/4W
R300	1-249-438-11	CARBON	56K	5%	1/4W
R301	1-215-493-00	CARBON	1M	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R303	1-249-417-11	CARBON	1K	5%	1/4W
R304	1-247-887-00	CARBON	220K	5%	1/4W
R305	1-249-430-11	CARBON	12K	5%	1/4W
R306	1-247-887-00	CARBON	220K	5%	1/4W
R307	1-247-849-00	CARBON	5.6K	5%	1/4W
R308	1-249-414-11	CARBON	560	5%	1/4W
R309	1-249-434-11	CARBON	27K	5%	1/4W
R310	1-249-422-11	CARBON	2.7K	5%	1/4W
R400	1-249-438-11	CARBON	56K	5%	1/4W
R401	1-215-493-00	CARBON	1M	5%	1/4W
R402	1-249-431-11	CARBON	15K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R403	1-249-417-11	CARBON	1K	5%	1/4W
R404	1-247-887-00	CARBON	220K	5%	1/4W
R405	1-249-430-11	CARBON	12K	5%	1/4W
R406	1-247-887-00	CARBON	220K	5%	1/4W
R407	1-247-849-00	CARBON	5.6K	5%	1/4W
R408	1-249-414-11	CARBON	560	5%	1/4W
R409	1-249-434-11	CARBON	27K	5%	1/4W
R410	1-249-422-11	CARBON	2.7K	5%	1/4W
R500	1-247-713-11	CARBON	1K	5%	1/4W
R501	1-249-466-11	CARBON	56K	5%	1/4W
R502	1-247-710-11	CARBON	560	5%	1/4W
R503	1-249-466-11	CARBON	56K	5%	1/4W
R504	1-247-721-11	CARBON	4.7K	5%	1/4W
R505	1-247-756-11	CARBON	2.2K	5%	1/2W
R506	1-247-756-11	CARBON	2.2K	5%	1/2W
R507	1-247-752-11	CARBON	1K	5%	1/2W
R508	1-247-752-11	CARBON	1K	5%	1/2W
R509	1-247-713-11	CARBON	1K	5%	1/4W
R510	1-247-726-11	CARBON	33K	5%	1/4W
R511	⚠1-217-151-00	RES, METAL PLATE	0.22		
R512	1-247-727-11	CARBON	10	5%	1/2W
R513	1-247-727-11	CARBON	10	5%	1/2W
R514	1-249-465-11	CARBON	47K	5%	1/4W
R600	1-247-713-11	CARBON	1K	5%	1/4W
R601	1-249-466-11	CARBON	56K	5%	1/4W
R602	1-247-710-11	CARBON	560	5%	1/4W
R603	1-249-466-11	CARBON	56K	5%	1/4W
R604	1-247-721-11	CARBON	4.7K	5%	1/4W
R605	1-247-756-11	CARBON	2.2K	5%	1/2W
R606	1-247-756-11	CARBON	2.2K	5%	1/2W
R609	1-247-713-11	CARBON	1K	5%	1/4W
R610	1-247-726-11	CARBON	33K	5%	1/4W
R611	⚠1-217-151-00	RES, METAL PLATE	0.22		
R612	1-247-727-11	CARBON	10	5%	1/2W
R613	1-247-727-11	CARBON	10	5%	1/2W
R614	1-249-466-11	CARBON	56K	5%	1/4W
R700	1-247-713-11	CARBON	1K	5%	1/4W
R701	1-247-724-11	CARBON	8.2K	5%	1/4W
R702	1-247-725-11	CARBON	10K	5%	1/4W
R703	1-249-469-11	CARBON	100K	5%	1/4W
R704	1-247-717-11	CARBON	2.2K	5%	1/4W
R705	1-249-467-11	CARBON	68K	5%	1/4W
R706	⚠1-206-662-00	METAL OXIDE	820	5%	2W F
R707	1-249-459-11	CARBON	12K	5%	1/4W
R800	⚠1-206-710-00	METAL OXIDE	240	5%	3W F

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R801	⚠1-206-666-00	METAL OXIDE	1.2K	5%	2W F
R802	1-247-719-11	CARBON	3.3K	5%	1/4W
R803	1-247-719-11	CARBON	3.3K	5%	1/4W
R804	1-247-708-11	CARBON	470	5%	1/4W
R805	1-247-750-11	CARBON	680	5%	1/2W
R806	1-247-750-11	CARBON	680	5%	1/2W
R900	1-247-727-11	CARBON	10	5%	1/2W
R901	1-247-727-11	(G-AEP)...CARBON	10	5%	1/2W
R902	1-247-727-11	(G-AEP)...CARBON	10	5%	1/2W
R903	1-247-727-11	(G-AEP)...CARBON	10	5%	1/2W
R904	1-247-747-11	CARBON	470	5%	1/2W
R905	1-247-747-11	CARBON	470	5%	1/2W
RV300	1-237-846-11	RES, VAR, CARBON	120K/120K	(VOLUME)	
RV301	1-237-740-11	RES, VAR, CARBON	100K/100K	(TREBLE)	
RV302	1-237-740-11	RES, VAR, CARBON	100K/100K	(BASS)	
RV303	1-237-739-11	RES, VAR, CARBON	100K/100K	(BALANCE)	
RY700	1-515-533-11	RELAY			
S1	⚠1-554-920-11	SWITCH, PUSH (AC POWER)	(1 KEY)		
S100	1-571-118-11	SWITCH, PUSH (6 KEY) (MOINTOR/INPUT SELECTOR)			
S300	1-571-112-11	SWITCH, PUSH (1 KEY)	(LOUDNESS)		
S900	1-571-109-11	SWITCH, ROTARY SLIDE (SPEAKERS)			
T1	⚠1-448-997-11	TRANSFORMER, POWER			
TM900	1-536-706-00	TERMINAL BOARD (SPEAKERS)			

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-304-973-00	SHEET, PROTECTION
3-327-844-31	INDIVIDUAL CARTON
3-701-630-00	BAG, POLYETHYLENE
3-769-414-11	(AEP,UK)...MANUAL, INSTRUCTION
3-769-414-41	(G-AEP)....MANUAL, INSTRUCTION
4-921-311-01	CUSHION

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

TROUBLESHOOTING

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before going through the check list below, first refer back to the connection and operating procedures.

Symptom	Remedy
No audio	• Check power cord connection. • Check speaker and program source connections. • Check SPEAKERS selector setting. • Check INPUT SELECTOR. • Adjust VOLUME control.
No audio from one channel or unbalanced left and right volume	• Adjust BALANCE control. • Check speaker and input connections of inoperative channel.
Abrupt sound loss from both speakers	• Turn off amplifier. Check speaker terminals and connecting cords for short.
Lack of bass sound or obscure instrument position	• Check speaker +/– connections for proper phasing.
Severe hum or noise	• TV or VTR is too close to audio system. • Move connecting cords away from transformers, motors or fluorescent lights. • Ground turntable system. • Fully insert connecting cord plugs. • Disconnect turntable ground wire when using an MM cartridge with a ground piece. • Wipe plugs and jacks with a cloth lightly moistened with methanol.

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Audio Group

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